

Environmental Management Performance Report

March 2001



Collecting Samples at 116-H-7 for Chromium 6 Analysis



Remote Handling of Samples from Tank 5-6 (U Plant)



Fill Removal at F Reactor Fuel Storage Basin



Installing Exhaust Hose at 233-S

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end January.
All other data as of February 23 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0102044b.3

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

TABLE OF CONTENTS

INTRODUCTION	1
SECTION A – EXECUTIVE SUMMARY.....	2
NOTABLE ACCOMPLISHMENTS	3
MAJOR COMMITMENTS.....	5
SAFETY/ISMS/CONDUCT OF OPERATIONS	6
REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS	12
TOTAL COST/SCHEDULE OVERVIEW.....	13
PERFORMANCE OBJECTIVES	16
KEY INTEGRATION ACTIVITIES.....	16
UPCOMING PLANNED KEY EVENTS	16
SECTION B – RESTORING THE RIVER CORRIDOR PROJECT SUMMARIES.....	17
REMEDIAL ACTION AND WASTE DISPOSAL PROJECT	18
DECOMMISSIONING PROJECTS	27
PROGRAM MANAGEMENT AND SUPPORT	35
SECTION C – TRANSITIONING THE CENTRAL PLATEAU PROJECT SUMMARIES	42
GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT	43
SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS	53

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B - Restoring the River Corridor Project Summaries, and Section C - Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data is current as of January 31. Accomplishments, Issues and Integration items are current as of February 23, unless otherwise noted.

Section A – Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to Management's attention that information considered to be most noteworthy. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective cleanup. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones, and FY01 Environmental Management (EM) corporate performance measures. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B – Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal (RAWWD) Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C – Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

Information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements; yellow indicates that significant improvement is required; and red indicates unsatisfactory conditions requiring immediate corrective actions.

Section A: Executive Summary

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end January.
All other data as of February 23, 2001 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

On January 4, the 100 B/C pipeline remediation subcontractor was given notice to proceed with mobilization and site preparation (setup of site trailers, air monitors, and clearing and grubbing of the associated areas).

Backfill activities around D Reactor were completed to support decontamination and decommissioning activities.

A baseline change proposal (BCP) was approved to remove a plume from the 116-F-14 Retention Basin in the 100 F Area estimated to be 32,984 metric tons (36,359 tons).

A BCP was approved to proceed with the leachate study to resolve the elevated hexavalent chromium contamination in the 116-H-7 Retention Basin in the 100 H Area.

The lead brick survey at 100 H Area was completed. 2,592 bricks were surveyed, and no contamination was encountered. Lead bricks will be diverted from the Hanford waste stream into the excess inventory program for donation to a local community organization for reuse. This effort supports the Supplemental Environmental Project resulting from the Multi-Media Inspection settlement.

The last of the 420 cover panels from the 116-N-3 Crib located in the 100 N Area was removed on January 9. Excavation work in the 116-N-3 Crib continued throughout January.

During January, approximately 95% of the soil and debris located at the J.A. Jones waste site was excavated and sorted. 1,774 metric tons (1,956 tons) of waste were shipped to ERDF during the first month of operations. Debris loading will continue in February. The major waste types unearthed at the J.A. Jones site were construction debris consisting of large concrete, wood, pipe, and other building materials. Equipment and material were demobilized from the J.A. Jones site and then mobilized at the 600-23 waste site. The 600-23 haul road and queue construction were also completed.

On January 31, the upper fill removal was completed in the F Reactor fuel storage basin (FSB). Sample results from the removed fill material indicate the soil is suitable for backfill use. Installation of the dewatering system in the F Reactor FSB was also completed, and water is being pumped out at a rate of approximately 189 liters (50 gallons) per day. Samples were taken from the pumped water for analysis.

During January, all scheduled concrete pourbacks were completed at both F and DR Reactors. A kick-off meeting for updating the F and DR Reactors safe storage enclosure (SSE) bid package was held on January 9.

Decommissioning activities continued at the 233-S Plutonium Concentration Facility. Removal of the L-18 valve and vessel was initiated. Nondestructive assay (NDA) activities were completed for L-4, L-14, L-16, and L-18 process hood vessels.

The annual Hanford Site Waste Management Units Report was placed on the Internet on January 11, which satisfies completion of Tri-Party Agreement Commitment Milestone C-10-08 (due January 31).

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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

NOTABLE ACCOMPLISHMENTS continued:

On January 10, the ER FY01 Baseline updates for River Corridor Restoration (Volume 1) and River Corridor Final Closure and Spent Nuclear Fuel (Volume 2) were submitted to RL per the Baseline Update Guidance (BUG) II requirements. These volumes contain ER data that have been recast to the new PBS/WBS structure for FY02 and beyond. In addition, a set of 3 volumes reflecting the ER Baseline by the current PBS structure was delivered to RL.

CENTRAL PLATEAU:

History matching activities were completed for vadose zone, groundwater, and Columbia River technical elements in preparation for running the entire System Assessment Capability (SAC) model for the period from 1944 to 2000 to test SAC's integrated performance.

In January, Phase II of the In Situ Redox Manipulation (ISRM) project was initiated. Phase II consists of installing 28 barrier wells and 4 compliance monitoring wells parallel to the Columbia River. These well installations will extend the current 198-meter (650-foot) chromium-contaminated groundwater barrier by approximately 280 additional meters (919 feet).

A walkdown for Phase 1A and 1B well decommissioning was completed. A list of 115 proposed wells was issued to Pacific Northwest National Laboratory (PNNL) for decommissioning in support of the super stretch performance incentive to decommission 90 wells.

All groundwater pump and treat systems operated above the planned 90% availability levels in January. Since system inception, the five pump and treat systems have processed over 4.7 billion liters of groundwater, removing approximately 5,064 kilograms of carbon tetrachloride, 221 kilograms of chromium, and 0.96 curies of strontium. Approximately 415 million liters of groundwater have been processed in FY01, removing approximately 482 kilograms of carbon tetrachloride, 28 kilograms of chromium, and 0.070 curies of strontium.

24 large aluminum filter frames were shipped offsite for recycling. The filter frames were fabricated in support of N Reactor operations and equate to approximately 11 metric tons (25,000 pounds) that will not require disposal in the Hanford Site landfill.

Sampling activities were completed for three U Plant canyon tanks in support of the Canyon Disposition Initiative (CDI) characterization efforts. These sampling activities included substantial radiological risk and were performed without incident and well under the projected personnel dose estimates.

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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Sixteen TPA milestones are currently planned for completion during FY01. Through January, seven milestones have been completed, all ahead of schedule.

Green

Two TPA change requests were approved that addressed milestones previously reported as unrecoverable. One change request modified the title of TPA Milestone M-16-26B, regarding remediation and backfill of liquid waste sites and pipelines in the 100 Area, and also changed the completion date from February 28, 2001 to March 31, 2002. Four additional interim milestones were also established that addressed 100 B/C pipeline remediation and filter box removal at a 100 B Area waste site; two of the four milestones are FY01 milestones and two milestones are outyear milestones. The other change request revised the completion date for TPA Milestone M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit", from May 31 to September 30.

One milestone is currently unrecoverable. A TPA change request will be prepared in the May timeframe to revise M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", (due September 30, 2001). Per regulator request, backfill/regrade in the 300 Area is being deferred until a Kd uranium leachability study is completed.

Total Tri-Party Agreement Milestones Due in FY01	16
Total Planned Through January	7
Total Completed Through January	7

Remaining Tri-Party Agreement Milestones to be Completed in FY01	9
Forecast Ahead of Schedule	5
Forecast On Schedule	3
*Forecast Unrecoverable	1

*Regulators concur with path forward to realign deliverable dates.

EM Corporate Performance Measures:

	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Forecast for FY01	Completed YTD
Waste Site Excavations	12	12	20	20	5
Technology Deployments	0	5	5	5	1

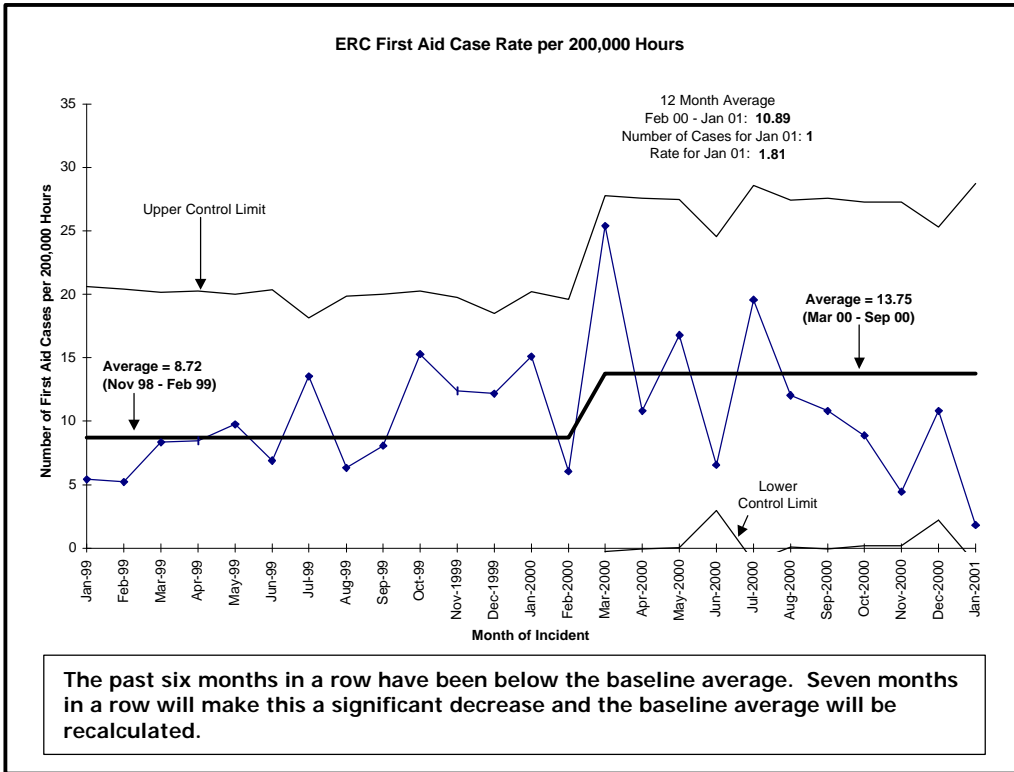
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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

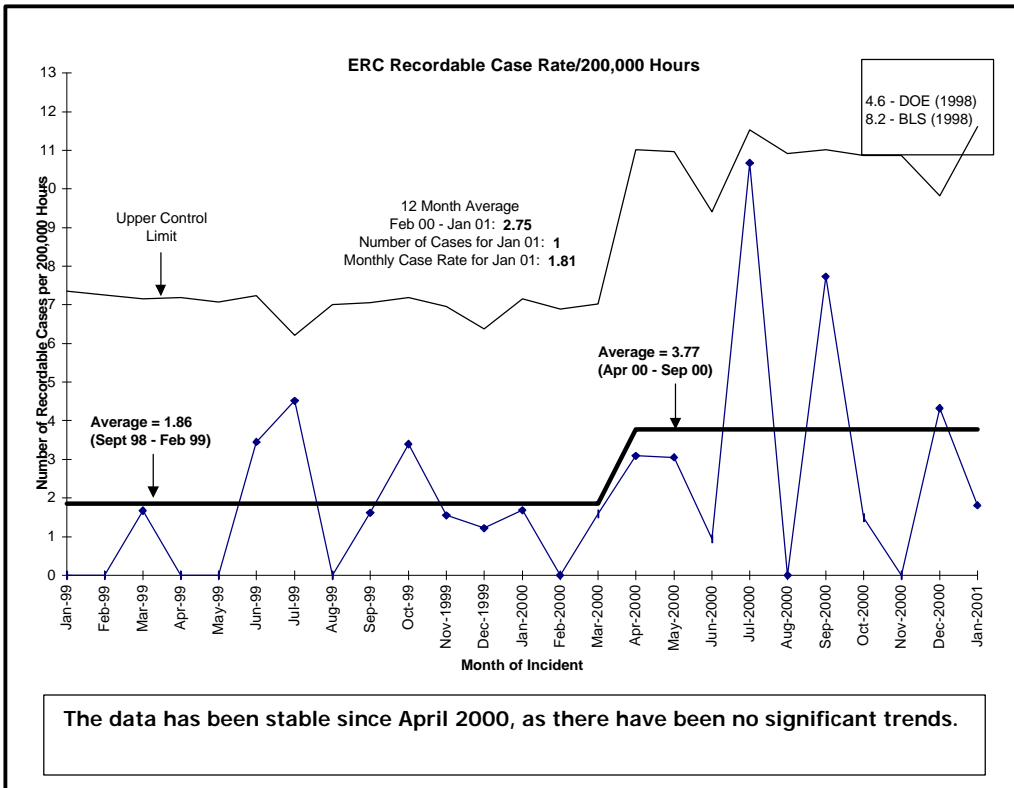
ENVIRONMENTAL RESTORATION

MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only):



Green



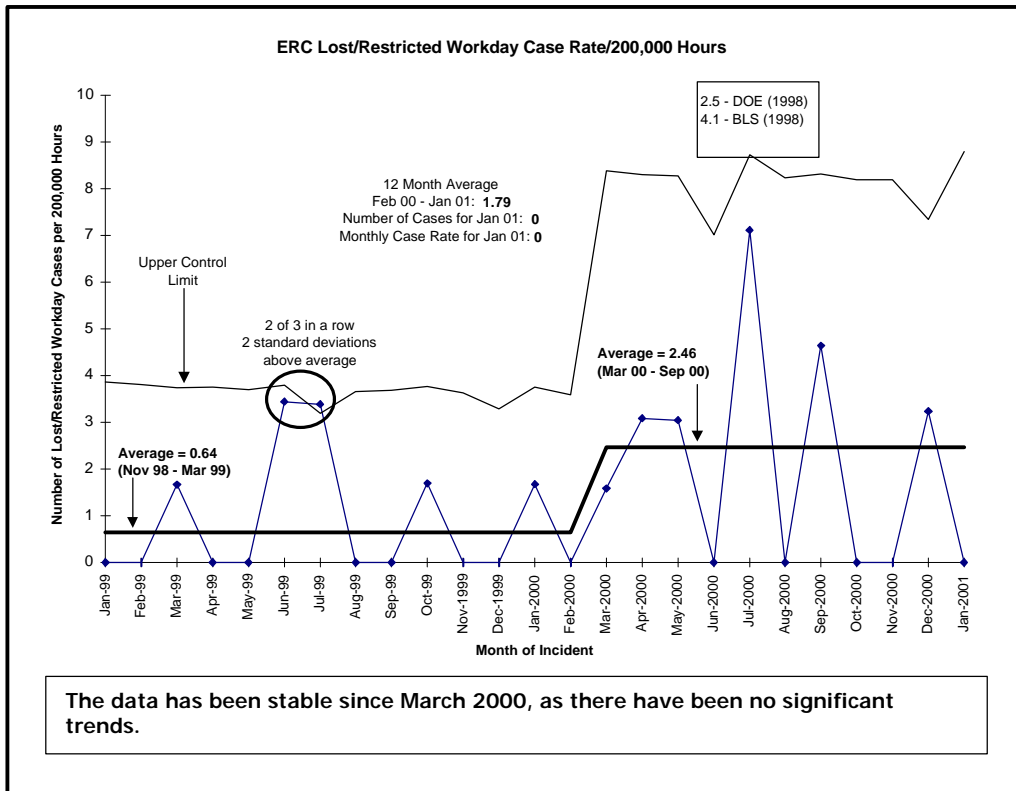
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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:



Green

The following actions have or are being taken by the ERC to focus on safety improvement:

- Individual injury cases are thoroughly investigated and Lessons Learned reported.
- Continue to look for trends and consult with corporate and other Bechtel Northwest, Inc. (BNI) contacts for ways to enhance performance.
- Senior management is conducting small group and all employee meetings to discuss safety and personal commitment.
- Copies of the hand safety poster prepared by Quality Safety and Health were distributed.
- Implementation of the new hazard evaluation process continues to be a major area of focus for the ERC.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

Safety:

	YTD	Current Month (Jan)	Current Month Comments
First Aid	21*	1	(1) strain (RCT stepped out of government vehicle onto rock and twisted left ankle.) *(1) December incident reclassified in January to Non Work Related.
OSHA Recordable	6	1	(1) cut to finger (Teamster reaching between seat and backrest of driver's side of truck, came in contact with old rusty razor blade.)
Restricted Workday Case	1*	0	*(1) December incident reclassified in January to Lost Workday.
Lost Workday Case	2	1*	*(1) December Restricted Workday Case incident reclassified in January to Lost Workday Case.

Green

The ERC, as of February 17, 2001, reports 148,900 hours since the last lost workday incident. The incident occurred on July 17, 2000 and became a lost time on January 17, 2001.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

ISMS:

DOE EM Performance Agreement: Maintain and improve the approved Integrated Safety Management System (ISMS).

Green

Status:

- *Conducted a surveillance of the implementation of the hazards evaluation process at the 100-H project site (Surveillance Report SH-01-001).*
- *Formally issued the self-assessment summary report (SA-QS-00-001), an assessment of the new Hazard Identification and Analysis work process during the initial implementation stage.*
- *Interviewed candidates for the ISMS coordinator position within QS&H.*
- *Completed the initial training of ERC projects and functional personnel in a formal process of selecting, designing and implementing metrics.*
- *Initiated a modification to the Corrective Action Request (CAR) system in order to simplify the process for CAR development and approval.*
- *Continued employee awareness of ISMS through the ISMS Question of the Day Program.*
- *Implementation of the new hazard evaluation process continued. A meeting between Field Support and Quality Safety and Health personnel was held to discuss responses to recommendations identified in Self-Assessment Summary Report (SA-QS-00-001) and clarification of the Hazards Identification and Analysis process relative to the makeup of the team for pre-job walkdowns. Discussed job hazards analysis (JHA) development, and the relationship of the health and safety plan (HASP), JHA and Task Instruction (TI) for determining the level of detail in the JHA.*

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

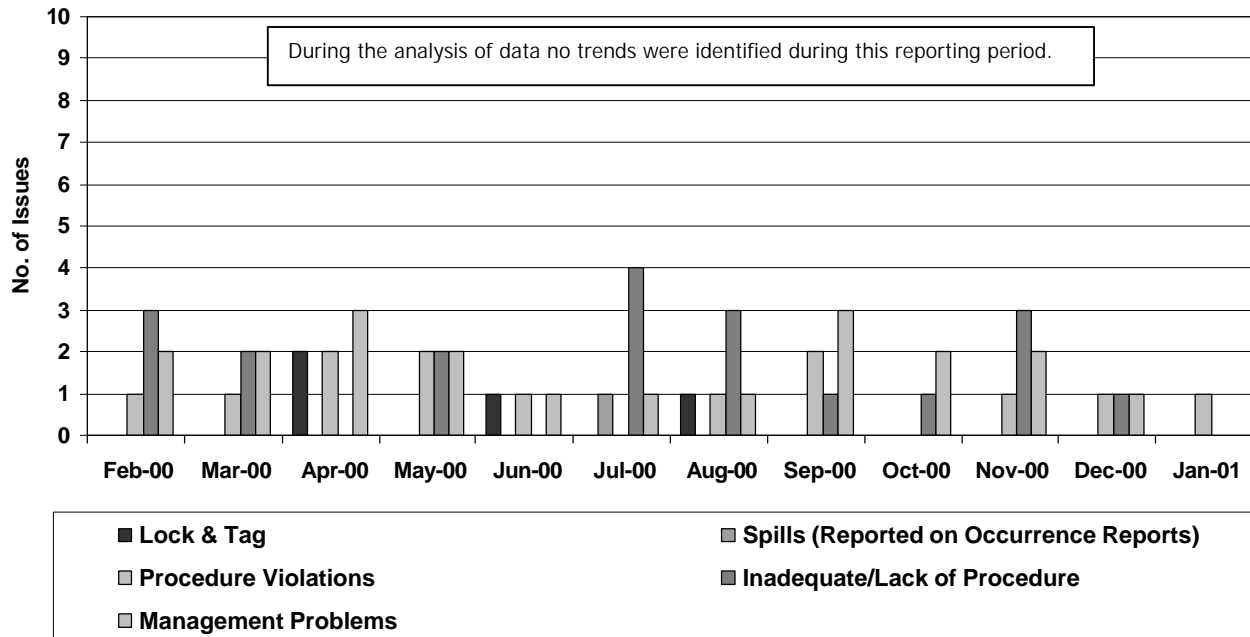
Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 2/1/00 through 1/31/01

	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01
Lock & Tag	0	0	2	0	1	0	1	0	0	0	0	0
Spills (Reported on Occurrence Reports)	0	0	0	0	0	1	0	0	0	0	0	0
Procedure Violations	1	1	2	2	1	0	1	2	0	1	*1	1
Inadequate/Lack of Procedure	3	2	0	2	0	4	3	1	1	**3	*1	0
Management Problems	2	2	3	2	1	1	1	3	2	2	1	0

* Trend data not received until January 2001.

**Trend data for one item not received until January 2001.



January Conduct of Operations Issues:

Procedure Violation:

Condition Description: A pipefitter opened a pipe trap behind a panel in the 233-A room and a small amount of dust/scale fell out of the pipe. The pipefitter failed to have a container in position and the dust/scale fell to the floor.

Corrective Action Plan: Pipefitter was counselled on the need to follow procedures. The importance of following procedures and if necessary changing the procedure was reviewed at the plan of the day (POD). A special safety meeting was held at the Reactor Interim Safe Storage (RISS) sites to view a safety film related to importance of following safety and consequences of not following procedures.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Previous Conduct of Operations Issues Not Reported Until January:

Procedure Violation:

Condition Description: Remedial Action subcontractor P. W. Stephens, Inc. (PWSC) laborer participated in pipe cutting operations controlled by a Radiation Work Permit (RWP) that required the worker to be enrolled in the internal plutonium (IPU) bioassay program. While the individual signed acknowledgement of the requirements of the RWP, multiple pipe cutting operations occurred before the worker's truancy in the IPU bioassay program was discovered.

Corrective Action Plan:

1. Issued a letter to the subcontractor requesting a corrective action plan (CCN 082734).
2. RAWD project contacted ERC dosimetry to obtain the employee dosimetry report on a monthly basis.
3. Reviewed all subcontractor personnel for the up-to-date bioassay and training requirements.
4. As the subcontractor is responsible for the allocation of labor to its work, the Subcontract Technical Representative (STR) needs a mechanism which will assure appropriate and safe allocation of labor by the subcontractor. Accordingly, the subcontractor has been directed to forward all future requests for security badges and dosimetry using BHI furnished forms to the BHI STR (CCN 082734). The subcontractor has acknowledged it will comply with the direction via CCN 082833.

Green

Condition Description:

1. Nonconforming items inspected and Nonconformance Report forms signed off as completed by non qualified inspectors.
2. A Correction Action Report was not initiated when a review of the Field Support Nonconformance Report Log identified problems required by BHI-MA-02, Procedure 2.1, which requires a CAR be initiated when "a condition that has an adverse impact to the environment, quality, safety, or operability...". Failure of an ERC system, process, or program to comply with a requirement of the ERC contract, or BHI policies and procedures.
3. The Field Support Nonconformance Log had not been maintained in accordance with BHI-FS-01, Field Support Administration, Volume 1, Procedure 5.3, "Control of Nonconforming Items and Processes".
4. Hold tags were not issued or placed on nonconforming items as required by BHI-FS-01, Volume 1, Procedure 5.3.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Corrective Action Plan:

1. *Field Support Nonconformance Reports (NCR) with the specific deficiency of being inspected by unqualified inspectors have been re-inspected by qualified inspectors.*
2. *The NCR log has current information on each NCR provided by the Field Engineers.*
3. *The Field Engineering Supervisor will issue an Interoffice Memorandum to the Field Engineering organizations delineating the responsibilities of a Field Support Inspector as delineated in BHI-FS-01, Field Support Administration, Volume 1, Procedure 5.9 "Inspector Qualification". Additionally, the Field Engineering Supervisor will publish the Area Field Engineers a listing of qualified Field Support Inspectors and the applicable qualification of each. BHI-FS-01, Volume 1, Procedure 5.9 will be assigned to Field Engineers as required reading.*
4. *The Field Engineering Supervisor will issue an Interoffice Memorandum to the Field Engineering organizations delineating the responsibilities of a Field Engineer in supplying copies of completed NCR to Field Support Programs Manager in a timely fashion as required by BHI-FS-01, Field Support Administration, Volume 1, Procedure 5.3 "Control of Nonconforming".*
5. *BHI-FS-01 Field Support Administration, Volume 1, Procedure 5.3, "Controls of Nonconforming Items and Processes" is being revised to remove ambiguity and to specify when hold tags must be used. Items currently under NCRs will be evaluated against the hold tag criteria within the revised procedure to ensure that items that do not conform to requirements are controlled to prevent inadvertent use. BHI-FS-01, Volume 1, Procedure 5.3 will be assigned to Field Engineers as required reading.*

Green

Condition Description: *During work operations associated with 105 F Fuel Basin excavation, the excavator operator brought up a piece of debris for the rad technician to survey. Upon determining that it was a fuel basket, it was placed back in the basin and covered with two feet of dirt. The dose reading on the item was 2-2.3 mR/hr. A review of the work package showed when a fuel basket or unknown debris was found it was to be immediately placed back where it was found and covered with two feet of dirt. This requirement was a contingency placed in the work package for potentially high dose material that may be associated with a fuel basket. The DOE Facility Representative informed project management that he had been notified of the concerns raised and an occurrence report should be generated for failure to follow the work package.*

Corrective Action Plan:

1. *Revised the work package to remove conflicting directions. Items discovered and identified as fuel buckets, spacers, process tubes, or other debris, will be surveyed and the radiation levels will determine item disposition (i.e., ERDF burial for low radiation items, stage for decontamination for medium level items, or return to basin and recover for high radiation items). Completion date was 1/03/01.*
2. *An initial training session on material recognition was held on 12/31/00. The work package was revised and the project will conduct a second training session of the identification and disposition of items found in the basin. Completion date was 1/04/01.*

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REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

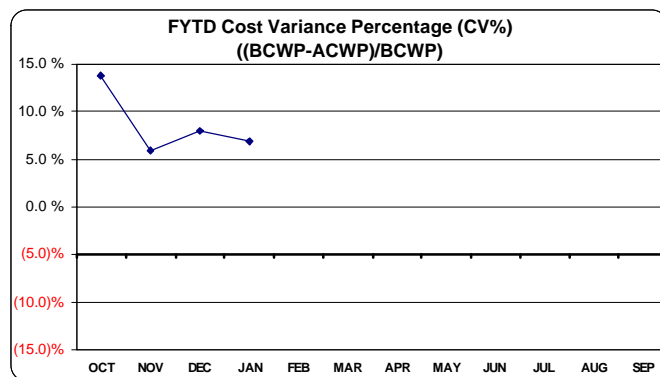
Refer to individual Project issues in the following Section B and Section C.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL):

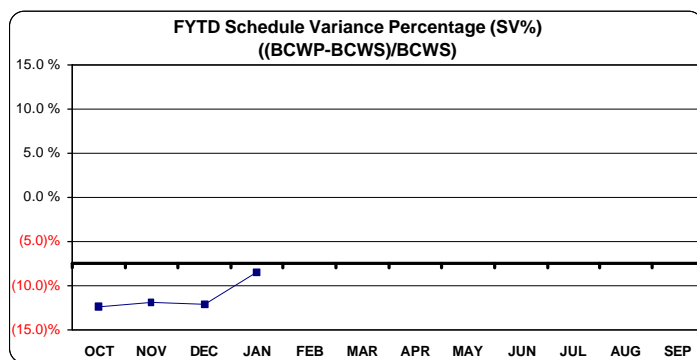


Green

Desired performance is better than -5.0%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Out-Year FCST
CURRENT PERIOD													
ACWP	9,656	10,998	11,610	12,274									
BCWP	11,195	10,749	13,140	12,755									
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264	44,538									
BCWP	11,195	21,944	35,085	47,839									
CV	1,539	1,290	2,820	3,301									
CV%	13.7%	5.9%	8.0%	6.9%									
EAC (Cumulative)	9,656	20,654	32,264	44,538	59,636	74,072	91,681	106,801	121,798	137,749	151,254	166,419	166,488
Yr End Budget Variance	195	544	2,241	2,200									

For variance explanation by PBS, see Project Status Section of each project.



Green

Desired performance is better than -7.5%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Accum)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,015	12,418	12,179	14,222	17,679	13,959	13,675	15,713	13,684	15,258
BCWP	11,195	10,749	13,140	12,755								
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,318	64,497	78,719	96,398	110,357	124,032	139,746	153,430	168,688
BCWP	11,195	21,944	35,085	47,839								
SV	(1,587)	(2,940)	(4,815)	(4,479)								
SV%	-12.4%	-11.8%	-12.1%	-8.6%								

For variance explanation by PBS, see Project Status Section of each project.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL) continued:

FY01 PERFORMANCE FYTD JANUARY 2001

(\$K)

	FY01 DWP BCWS	CURRENT BCWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
			BCWS	BCWP	ACWP	\$	%	\$	%	
ER01 100 Area R/A	29617	30811	9123	9043	7504	-80	-0.9%	1539	17.0%	29194
ER03 300 Area R/A	4127	3125	984	685	623	-299	-30.4%	62	9.1%	3008
ER04 ER Waste Disposal	17420	18079	5807	5783	5300	-24	-0.4%	483	8.4%	17556
RA-Subtotal	51164	52015	15914	15511	13427	-403	-2.5%	2084	13.4%	49758
ER02 200 Area R/A	443	4214	724	599	482	-125	-17.3%	117	19.5%	4154
ER08 GW Management	24942	30509	8906	7829	7893	-1077	-12.1%	-64	-0.8%	31004
VZ01 GW/VZ	10833	11184	4059	3380	3390	-679	-16.7%	-10	-0.3%	11226
GW/VZ-Subtotal	36218	45907	13689	11808	11765	-1881	-13.7%	43	0.4%	46384
ER06 D&D	2065	12431	3839	3535	3339	-304	-7.9%	196	5.5%	12240
ER06 - 233-S	5130	6363	1990	1820	2063	-170	-8.5%	-243	-13.4%	6460
DD-Subtotal	7195	18794	5829	5355	5402	-474	-8.1%	-47	-0.9%	18700
ER05 S&M	13024	14311	5234	4476	4246	-758	-14.5%	230	5.1%	14070
ER07 Long-Term S&M	59	59	4	4	0	0	0.0%	4	100.0%	56
SM-Subtotal	13083	14370	5238	4480	4246	-758	-14.5%	234	5.2%	14126
ER10 ERC PM&S	28984	31221	9811	9591	8603	-220	-2.2%	988	10.3%	31138
ER10 RI PM&S	5300	6381	1837	1095	1095	-742	-40.4%	0	0.0%	6381
PM-Subtotal	34284	37602	11648	10686	9698	-962	-8.3%	988	9.2%	37519
GRAND TOTAL	141944	168688	52318	47840	44538	-4478	-8.6%	3302	6.9%	166487

Green

Cost/Schedule Status:

Cost Variance Summary

At the end of January, the ER Project had performed \$47.8M worth of work, at a cost of \$44.5M. This results in a favorable cost variance of \$3.3M (+6.9%). The positive cost variance is attributed to less labor required to complete remediation cleanup verification packages (CVPs) due to use of a streamlined format and consolidation of waste sites; shifting personnel between remediation sites, which has resulted in labor and supervision savings; less ERDF Transportation labor required than planned; less mobilization costs for DR and H Reactors than planned; and rebilling adjustments.

Schedule Variance Summary

Through January, the ER Project is \$4.5M (-8.6%) behind schedule. The negative schedule variance is attributed to completion delays due to contaminated soil encountered during RCRA well drilling; waste shipments from RCRA wells placed on hold pending disposition resolution; well decommissioning delays caused by extended well document search and selection; delays in groundwater monitoring sample collection and analysis activities; delay in selecting vadose data configuration subcontract and some planned resources unavailable due to supporting higher priority activities; additional time required to evaluate new hexone tank sampling and video equipment; and late billings for site-wide assessments.

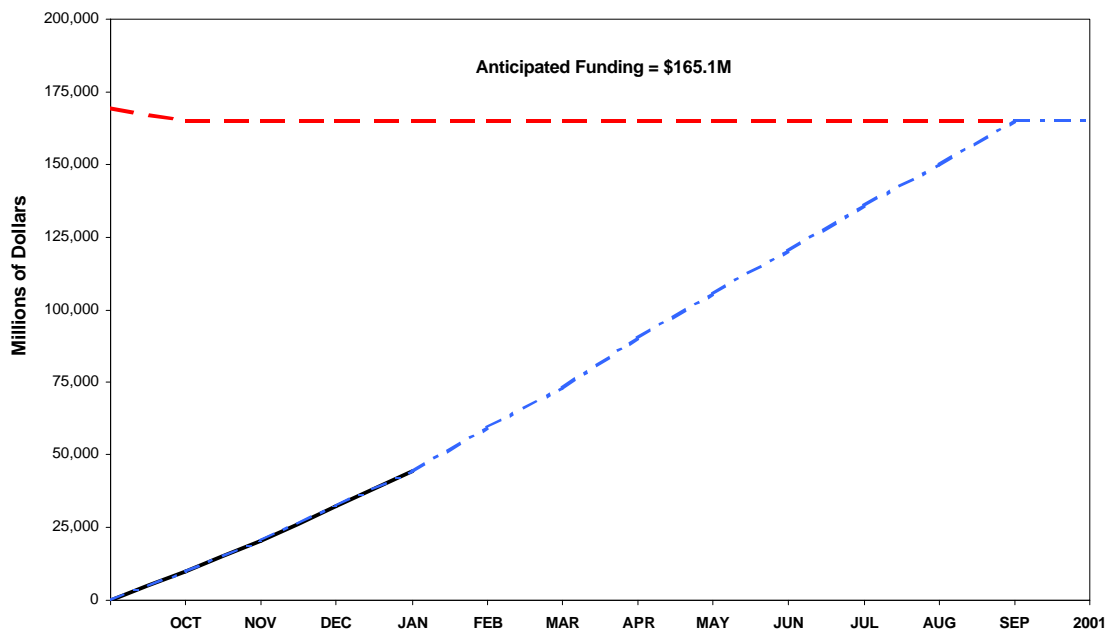
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY2001 Funds Management



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2001	
ANTICIPATED FUNDING	169,632	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	Est. Outyr. ETC	EAC TOTAL
APPROVED SCOPE														
1 Actual Cost	9,656	20,654	32,264	44,538										
2 Current Monthly EACs	9,656	10,998	11,610	12,274	15,098	14,436	17,608	15,120	14,997	15,951	13,505	15,165		
3 Cumulative EAC Through January	9,656	20,654	32,264	44,538	59,636	74,072	91,680	106,800	121,797	137,748	151,253	166,418	69	166,488
FEBRUARY FY2001 APPROVED BCP'S														
4 ER01 BCP-21043 Additional Contaminated Material @ 100-F & 116-F-14 Site											335	300	0	635
5 ER03 BCP-21104 Deferral of 300 Area Scope Impacted by Kd Study						(200)	(75)	(62)					0	(337)
6 Subtotal Approved Scope Changes					0	(200)	(75)	(62)	0	0	335	300	0	298
FY2001 PENDING BCP'S														
7 ER05 BCP-21066 S/M&T Scope Reductions due to Funding Reduction											(600)		0	(600)
8 VZ01 BCP-21109 Well Maintenance FY00 Carover Scope Reduction (PNNL)						(203)							0	(203)
9 ALL Provisional Billing Rate Adjustment											700		0	700
10 ER01 BCP-21111 600-264 Burial Ground Remediation							5		10	10	12		0	37
11 ER01/04 BCP-21112 Delete 21.6 Tons of Contaminated Soil to ERDF								(90)	(100)				0	(190)
12 ER01/04 BCP-21113 Additional Plumes at 116-F-2								150	168				0	318
13 ER10 Implement DOE Order 5400.5 Radiation Protection of Public & Environment						10	23	23	23	23	24	24	0	150
14 ALL Pending Scope Reductions/Efficiencies					(237)	(237)	(237)	(237)	(237)	(237)	(238)	(238)	0	(1,898)
15 Subtotal Approved BCPs + Pending BCPs					(237)	(630)	(284)	(216)	(136)	(204)	233	86	0	(1,388)
FY2001 PENDING BCP'S														
16 Current Monthly EAC + February FY2001 Approved BCP's & Pending BCP's	9,656	10,998	11,610	12,274	14,861	13,806	17,324	14,904	14,861	15,747	13,738	15,251		-
17 Cumulative EAC + February FY2001 Approved BCP's & Pending BCP's	9,656	20,654	32,264	44,538	59,399	73,205	90,529	105,433	120,294	136,041	149,779	165,030	69	165,100

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PERFORMANCE OBJECTIVES:

Refer to individual Project information in the following Section B and Section C.

KEY INTEGRATION ACTIVITIES:

RIVER CORRIDOR:

Benchmarking was initiated between Hanford, Oak Ridge, and INEEL for TRU waste retrieval activities at each of the sites. The ERC provided status on the engineering study currently underway. The next conference call is scheduled for March 7.

Coordinated fuel shipment requirements (to K Basin) with FH in event fuel is found during F and H basin demolition.

Safety and Health: ER support to the Hanford Site multi-contractor technical exchange group continued on reuse, recycle, and release issues, including proposed modifications to DOE 5400.5, Radiation Protection of the Public and the Environment. Several meetings have been held to integrate site application requirements.

Design Engineering: Engineering supported the value engineering study sponsored by Fluor Hanford's (FH) River Corridor Project (RCP) group to streamline configuration management requirements RCP will use in the future. Per RCP group's request, Engineering is compiling a list that summarizes requirements for transferring a facility from FH to BHI.

Environmental Technologies: The Waste Sampling and Characterization Facility (WSCF) laboratory was audited by an integrated team of ERC and FH staff. The audit was completed January 25. The audit found only minor issues with regard to Hanford Analytical Services Quality Requirements Document (HASQARD) compliance and WSCF Quality Assurance Program Plan (QAPP) compliance. The laboratory was approved for continued use.

BHI facilitated the development of site-wide criteria to determine which regulatory agency enforcement action letters require notification to DOE under DOE Order 232.1A. This issue was addressed by the Central Environmental Committee (CEC), which is composed of Hanford Site contractor representatives. The approved approach establishes a clear hierarchy of agency enforcement actions that will be used to distinguish between "formal notifications" that require reporting under DOE Order 232.1A and "informal notifications" that do not trigger reporting under this Order and ensures consistency among the Hanford Site contractors. On January 18, this approach was formerly transmitted to RL/Office of River Protection (ORP) from the CEC with effective date of February 1.

Green

UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-24-49, Install 3 Additional Wells at SST WMA S-SX, due 4/30/01.

Tri-Party Agreement Milestone M-24-50, Install 2 Additional Wells at SST WMA TX-TY, due 4/30/01.

Green

Environmental Management Performance Report

March 2001

Section B - River Corridor Information

- Remedial Action and Waste Disposal Project
- Decommissioning Projects (Interim Safe Storage and 233-S)
- Program Management and Support



Neutron Monitor Dismantlement at 233-S



Size Reduction at 116-N-3 Crib



Fill Removal at F Reactor Fuel Storage Basin



Stairwell Demolition at DR Reactor

***Focused on Progress...
Focused on Outcomes!***

Financial/Performance Measures data as of month-end January.
All other data as of February 23 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0102044b.1

Remedial Action and Waste Disposal Project (RAWD)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001**

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end January.
All other data as of February 23, 2001 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAWDP):

ACCOMPLISHMENTS: RAWDP

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations:

During January, shipments totaling 46,039 metric tons (50,750 tons) of contaminated waste were transported to ERDF. 146,590 metric tons (161,589 tons) of waste have been received in FY01. To date, a total of 2,453,352 metric tons (2,704,372 tons) of material have been received and placed in the disposal facility.

100 B/C Area Remediation: Preparation for the 100 B/C pipeline remediation readiness assessment continued during January. Pre-excavation civil surveying progressed. On January 4, the subcontractor was given a notice to proceed with mobilization/site preparations (setup of site trailers, air monitors, and clearing and grubbing of the associated areas).

100 D Area Remediation: Backfill activities around D Reactor were completed to support decontamination and decommissioning (D&D) activities. Waste sites 116-D-2, 116-D-6, and 100-D-52 backfill was completed, and backfill activities were initiated on the north pipelines. Extension of well 199-D8-55 was initiated on January 4. The well required extension to allow backfill to continue to the required elevation.

100 F Area Remediation: Excavation of the 116-F-2 main trench and the north and south bypass ditches was completed during January. A baseline change proposal (BCP) was issued to remove a plume from the 116-F-14 Retention Basin estimated to be 32,984 metric tons (36,359 tons). Closeout sampling was also completed for the 1607-F-6 septic system.

100 H Area Remediation: A BCP was approved to proceed with the leachate study to resolve the elevated hexavalent chromium contamination in the 116-H-7 Retention Basin. A Tri-Party Agreement milestone change package was issued for regulator approval to revise the completion date of M-16-26C from May 31 to September 30 to accommodate the resolution of the chromium issue.

The lead brick survey at 100 H Area was completed. 2,592 bricks were surveyed, and no contamination was encountered. Lead bricks will be diverted from the Hanford waste stream into the excess inventory program for donation to a local community organization for reuse. This effort supports the Supplemental Environmental Project resulting from the Multi Media Inspection settlement.

Work continues on the remaining Closeout Verification Packages (CVPs) for the 100 H Area Operable Unit. The final version of the 1607-H-2 CVP was forwarded to Ecology for signature. Two CVP packages, 1607-H-4 and 100-H-17, were also forwarded to Ecology for review. Four additional CVPs were issued for internal review.

100 N Area Remediation: The last of the 420 cover panels from the 116-N-3 Crib were removed on January 9. Excavation work in the 116-N-3 Crib continued. The Safety Analysis Report for Packaging (SARP) is being revised to address shipping issues regarding the 116-N-3 trough. Removal and shipping of the trough will be delayed until approximately the end of March.

Work continues to update the 100-NR-1 integrated schedule for facility D&D and remediation activities. The integrated schedule is expected to be completed in March.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

ACCOMPLISHMENTS continued: RAWD	
<p>100/300 Area Design/Assessment: During January, discussions were initiated with RL and the regulators on defining the deliverable for Tri-Party Agreement Milestone M-16-00F, "Establish Date for Completion of All 100 Area Remedial Actions" (due December 31, 2001).</p> <p>300 Area Remediation: On January 26, excavation and loadout activities were completed for 97 metric tons (107 tons) of contaminated soil and concrete from the manhole located in the process sewer line south of the 300 Area North Process Pond.</p> <p>300/600 Area Remediation: During January, approximately 95% of the soil and debris located at the J.A. Jones waste site was excavated and sorted. 1,774 metric tons (1,956 tons) of waste were shipped to ERDF during the first month of operations. Debris loading will continue in February. Equipment and materials were demobilized from the J.A. Jones site and then mobilized at the 600-23 waste site. The 600-23 haul road and queue construction was also completed. The major waste types unearthed at the J.A. Jones site were construction debris consisting of large concrete, wood, pipe, and other building materials.</p> <p>A Tri-Party Agreement change request was approved that established three interim milestones that addresses completion of excavation, submittal of the CVP packages to Environmental Protection Agency (EPA), and backfill and regrading for the two waste sites.</p>	<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD	
See Executive Summary.	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD	
None identified at this time.	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD	
None identified at this time.	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD	
<ul style="list-style-type: none"> DOE Secretarial: None identified at this time. 	
<ul style="list-style-type: none"> DOE EM Performance Agreement: None identified at this time. 	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

• **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-16-26D	<i>Begin Excavation Activities at 100 B/C Process Effluent Pipelines.</i>	2/28/01	2/26/01 (F)
M-16-07B	<i>Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area</i>	7/31/01	3/09/01 (F)
M-16-41A	<i>Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites</i>	7/31/01	5/23/01 (F)
M-16-26C	<i>Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area</i>	9/30/01	9/30/01 (F)
M-16-03E	<i>Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling</i>	9/30/01	9/30/02 (F)*
M-16-26G	<i>Remove filter boxes and complete verification sampling for 100-B-12 waste site</i>	9/30/01	9/30/01 (F)
M-16-00F	<i>Establish Date for Completion of all 100 Area Remedial Actions</i>	12/31/01	12/31/01 (F)
M-16-41B	<i>Submit Closeout Verification Package (CVP) for JA Jones 1 and 600-23 Waste Sites for EPA Approval</i>	3/31/02	3/31/02 (F)
M-16-26B	<i>Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1/-2, 100-DR-1/-2, and 100-HR-1 OUs and Process Effluent Pipelines in the 100-DR-1/-2, and 100-HR-1 OUs. Complete revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1/-2, and 100-HR-1 OUs as defined in the RDR/RAWP for the 100 Area.</i>	3/31/02	3/31/02 (F)

Green

*Per regulator request, Kd (partitioning coefficient) study is being performed to determine uranium leachability in the 300 Area. 300-FF-1 backfill will be deferred until leachability concerns are resolved. A TPA change package will be prepared in May timeframe. Regulators concur with path forward.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *RAWD*

- **DNFSB Commitment:**
None identified at this time.

PERFORMANCE OBJECTIVES: *RAWD*

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
RAWD	70%	80%	<ul style="list-style-type: none"> • 490,000 Tons by 9/30/01 	On schedule.
		10%	<ul style="list-style-type: none"> • Backfill 16 Sites by 9/30/01 	On schedule.
		10%	<ul style="list-style-type: none"> • 50,000 Additional Tons by 9/30/01 (*Stretch) CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04 	Approximately 30% of Stretch undertaken as of 1/31/01. (Remaining 34,500 tons approved in February.) (*Detail Section 6C)

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

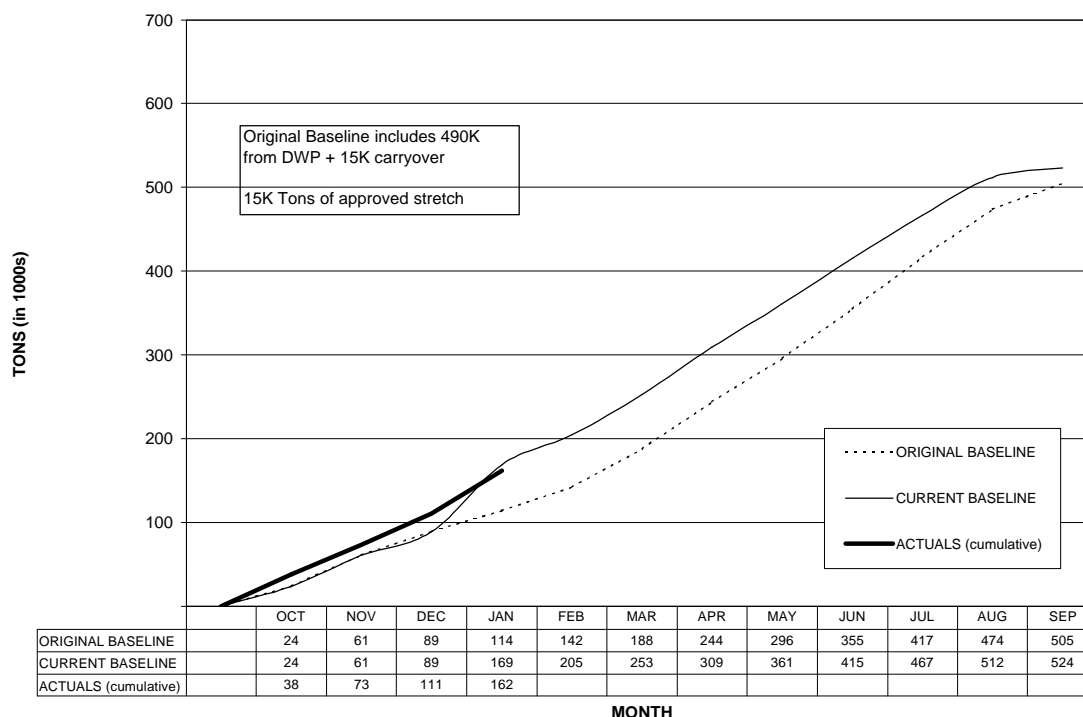
MARCH 2001

PERFORMANCE MEASURES/METRICS: RAWD – (River and Plateau)

	DWP FY01	FY01Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY01	Completed YTD
Waste Sites Excavated	12	12	20	20	5

Green

**Remedial Action and Waste Disposal Project
Cumulative Tons to ERDF**



STRETCH AND SUPERSTRETCH GOALS: RAWD

FY01 RAWD "Stretch" Goals	Approved Tons (K)
Remediate Additional 50K Tons of Contaminated Soil by 9/30/01	
(1) Additional Contamination Soil at 100-F Pipelines (BCP 21013 approved 11/00)	7.5K
(2) Additional Contamination Material at 100-H Sites (BCP 21014 approved 11/00)	8.0K
(3) Additional Contamination Material at 100-F Sites of 36.4 approved in February) (BCP 21043 approved 2/01)	
S/Total Remedial Action Stretch Goals:	15.5K

Green

(*through January 31)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE): RAWD

- Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	9,123	9,043	(80)
ER03 300 Area Remedial Actions	984	685	(299)
ER04 ER Waste Disposal	5,807	5,783	(24)
TOTAL Remedial Actions	15,914	15,511	(403)

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = **(\$80K); (0.9%)** [Last Month: (\$462K); (6.9%)]

Cause: Slower progress than originally planned on the 116-N-3 Crib demolition at the 100-NR-1 site due to higher site contamination, radiation, and demolition conditions different than planned; 100-BC-1 Near River Waste Sites subcontractor mobilization is behind schedule due to late submittals. Expect remedial activities to begin by February 28.

Resolution: Other work is being planned and performed while the crib trough contamination and removal issues are resolved. Increase coordination with subcontractor to improve submittal times.

Cause: Backfill activities at 100-DR-1 and remedial actions at 100-IU-6 are ahead of schedule.

Resolution: None; activities may complete ahead of schedule.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = **(\$299K); (30.4%)** [Last Month: (\$297K); (38.6%)]

Cause: 300-FF-1 Closeout Verification Package (CVP) scope has not been fully defined by the regulators and is impacting the site closure report completion.

Resolution: Working with regulators to determine CVP scope resolution; a baseline change proposal has been approved to defer closure report completion (will be implemented in February).

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = **(\$24K); (0.4%)** [Last Month: \$256K; 6.4%]

Cause: The ERDF received slightly less than the adjusted baseline tons for January due to 100N being behind schedule.

Resolution: None; expect to be on or ahead of schedule by the end of February.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE) continued: RAWD

• **Cost:**

Remedial Action & Waste Disposal Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER01 100 Area Remedial Actions	29,194	9,043	7,504	1,539
ER03 300 Area Remedial Actions	3,008	685	623	62
ER04 ER Waste Disposal	17,556	5,783	5,300	483
TOTAL Remedial Actions	49,758	15,511	13,427	2,084

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = **\$1539K; 17.0%** [Last Month: \$1042K; 16.7%]

Cause: Less labor and supervision were required than anticipated at the 100 Area waste sites by shifting personnel between various sites avoiding duplication, minimizing subcontract support, and reducing design requirements.

Resolution: Reflected in EAC. Underrun will be used to perform additional remediation work.

Cause: Closeout Verification Packages (CVPs) are requiring less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites. Labor costs have increased for the lead brick survey and have partially offset CVP savings.

Resolution: Reflected in EAC. Underrun will be used to perform additional remediation work.

Cause: The availability of extra disposal containers at 100-FR-1 is allowing more work (earned value) to be accomplished with the same work force.

Resolution: Reflected in EAC. Underrun will be used to perform additional remediation work.

PBS-ER03 – 300 Area Remedial Action

Cost Variance = **\$62K; 9.1%** [Last Month: \$55K; 11.6%]

Cause: Coordinating design efforts with 100 Area Burial Ground has resulted in data quality objective (DQO) costing less.

Resolution: Reflected in EAC. Underrun will be used to perform additional remediation work.

PBS-ER04 – Environmental Restoration Waste Disposal

Cost Variance = **\$483K; 8.4%** [Last Month: \$347K; 8.2%]

Cause: Planned driver overtime has not yet been needed to stay on schedule.

Resolution: Cost savings may be offset by anticipated high driver overtime to meet demands later in the year.

Cause: Using less Project Support staff manhours.

Resolution: EAC reduced support staff manhour trend.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

REGULATORY ISSUES: RAWD	
<p>Tri-Party Agreement Milestone M-16-03E: M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling," due September 30, 2001, will be missed due to the U.S. Environmental Protection Agency (EPA) requirement of performing a Kd (partitioning coefficient) study on uranium leachability. The regrades will not be completed until study results confirm that no further excavations will be required.</p> <p>Status: The EPA requested a Kd (partitioning coefficient) study be performed to address uranium mobility in the 300 Area. This study consists of obtaining uranium-contaminated samples, and performing leach rates with follow-on absorption tests, resulting in a Kd value. A DQO was completed, and a baseline change proposal was prepared to secure funding for the study. The study was started in February, and is expected to be completed in FY02. Preliminary results should be available at the end of FY01. A Tri-Party Agreement change package will be prepared in the May time frame. The regulators concur with the proposed path forward.</p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Green</div>
<p>618-4 Burial Ground: It is unlikely that treatment of the 618-4 Burial Ground uranium metal/oil drummed waste can be performed this fiscal year. The treatment technology has been identified, however, the treatment facility startup process is proceeding slower than planned. Currently, it appears that the treatment facility may be able to receive the uranium metal/oil drummed waste for treatment early next fiscal year. EPA has indicated a need to show continuous progress at 300-FF-1 in FY 2001.</p> <p>Status: In lieu of the above treatment this FY, a suggested alternative is to plan for and dispose of the 618-4 Burial Ground uranium oxide powder drums to ERDF. A BCP is being prepared for this scope of work.</p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Green</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): RAWD	
None identified at this time.	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): RAWD	
None identified at this time.	
INTEGRATION ACTIVITIES: RAWD	
<p>Benchmarking efforts were initiated between Hanford, Oak Ridge, and INEEL for TRU waste retrieval activities at each of the sites. The ERC provided status on the engineering study currently underway. The next conference call is scheduled for March 7.</p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Green</div>

Decommissioning Projects (D&D)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end January.
All other data as of February 23, 2001 (unless otherwise noted).

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F and DR Reactor ISS: On January 31, the upper fill removal was completed in the F Reactor fuel storage basin (FSB). Sample results from the top 4.6 meters (15 feet) of removed fill material indicate all requirements identified in the Sampling Analysis Plan (SAP) have been met, and that the soil is suitable for backfill use. Written approval from the regulators will be requested prior to backfill.

Installation of the dewatering system in the FSB was completed, and water is being pumped out at a rate of approximately 189 liters (50 gallons) per day. Samples were taken from the pumped water for analysis.

During January, all scheduled concrete pourbacks were completed at both F and DR Reactors. A kick-off meeting for updating the F and DR Reactors safe storage enclosure (SSE) bid package was held on January 9. The package is expected to be delivered to Procurement on February 28.

D and H Reactor ISS: Good progress continued at D and H Reactor ISS work sites during January. At D Reactor, thermal system insulation was removed from the supply fan room and adjoining rooms on January 15. Oil and lead were also removed from the exhaust plenum and south reactor area. At H Reactor, oil and lead were removed from the operation gallery and surrounding area. Hazardous material and oil were also removed from the FSB area. Asbestos removal was initiated on January 24 at H Reactor. The D and H Reactor Waste Designation SAP Rev. 0 was approved by the regulators on January 2.

233-S Plutonium Concentration Facility Decommissioning Project: During January, activities accomplished in the highly contaminated 233-S facility included the following:

- Commencement of L-18 valve and vessel removal.
- Continuation of structural steel removal from the viewing room.
- Removal of viewing room 1 and 2 neutron monitors and brackets from the process hood.
- Continuation of process hood pipe removal.
- Completion of NDA of the L-4, L-14, L-16, and L-18 process hood vessels.
- Shipment of 10 boxes of low level waste to ERDF (36 cubic meters [1,280 cubic feet]).
- Shielding a contaminated 'hot spot' on the process hood floor near L-16 vessel.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *D&D*

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *D&D*

- **DOE Secretarial:**
None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *D&D*

- **DOE EM Performance Agreement:**
None identified at this time.

- **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-93-12	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (...)	2/28/02	*TBD

Green

**Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY02. Initial discussions are underway.*

- **DNFSB Commitment:**
None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

PERFORMANCE OBJECTIVES: *D&D*

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
233-S	13% plus FY02 equivalent portion	76%	<ul style="list-style-type: none"> 8 vessels by 6/30/02 	Critical path activity on schedule.
		24%	<ul style="list-style-type: none"> 7 additional vessels by 6/30/02 (*Stretch) CV <5.0%; SV <7.5% for PBS ER-06	BCP-21023 approved commencing Stretch. (*Detail Section 6C)
ISS	11%	35%	<ul style="list-style-type: none"> D Reactor Major Tasks by 9/30/01 	Critical path activities on schedule; received authorization funding in December.
		15%	<ul style="list-style-type: none"> DR Reactor Major Tasks by 9/30/01 	
		35%	<ul style="list-style-type: none"> F Reactor Major Tasks by 9/30/01 	
		15%	<ul style="list-style-type: none"> H Reactor Major Tasks by 9/30/01 CV <5.0%; SV <7.5% for PBS ER-06	

Green

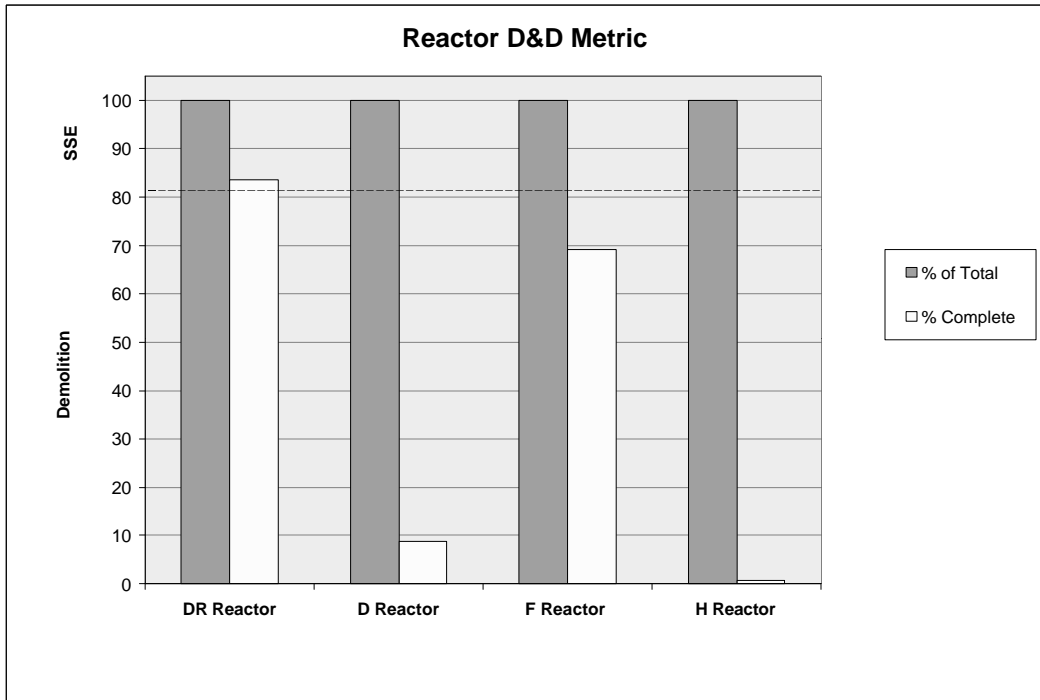
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

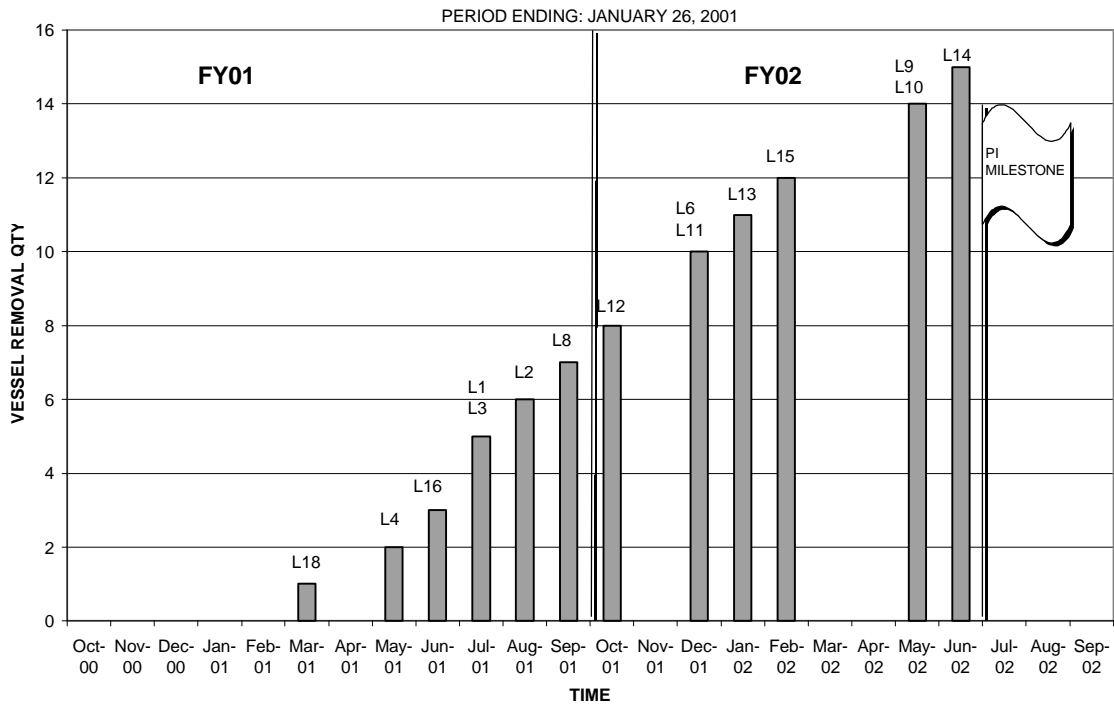
MARCH 2001

PERFORMANCE MEASURES/METRICS: D&D

Green



ACCELERATED VESSEL REMOVAL SCHEDULE



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

STRETCH AND SUPERSTRETCH GOALS: *D&D*

FY01 D&D "Stretch" Goals	Approved BCPs (K)
<i>Remove 7 Additional Vessels by 6/30/02 for a total of 15 Vessels (Stretch Only) (BCP 21023 approved 11/00)</i>	\$1,072.0K
S/Total D&D Stretch Goals:	\$1,072.0K

Green

PROJECT STATUS (COST/SCHEDULE): *D&D*

- Schedule:**

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER06 <i>Decontamination & Decommissioning</i>	5,829	5,355	(474)
TOTAL D&D	5,829	5,355	(474)

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = **(\$474K); (8.1%)** [Last Month: (\$575K); (12.9%)]

Cause: D and H Reactors asbestos removal and liquid pipe checks have been delayed to implement the new Job Hazard Analysis (JHA) work package procedure.

Resolution: Asbestos removal activities will be worked on overtime to recover schedule.

Cause: ISS equipment decontamination and sampling variance is due to ripple effect of delays encountered in removing fill from the Fuel Storage Basin. It is also contributing to work delays in structure demolition at D Reactor.

Resolution: This variance is expected to be recovered in early February.

Cause: Process Hood vessel removal at the 233-S facility behind schedule due to difficulty in removing neutron monitors, stringent procedures have slowed TRU waste shipments, and non-destructive assay (NDA) labor support not available.

Resolution: Schedule variance has been reduced (from prior month) due to performing L-18 vessel, pipe, and valve removal concurrently; selective overtime will also be used to recover schedule.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE) continued: D&D

• **Cost:**

Decommissioning Projects	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER06				
<i>Decontamination & Decommissioning</i>	18,700	5,355	5,402	(47)
TOTAL D&D	18,700	5,355	5,402	(47)

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = (\$47K); (0.9%) [Last Month: \$180K; 4.6%]

Cause: DR and H Reactors mobilization costs less than anticipated.

Resolution: Underrun will be used to perform additional remediation/demolition work.

Cause: Overrun due to increased work to resolve work package issues while work at the Fuel Storage Basin was on hold and due to loss in efficiency in removing material as a result of changes to procedure for removing material from the FSB.

Resolution: Will be reflected in EAC.

Cause: Temporary overrun at 233-S due to equipment purchased earlier than planned.

Resolution: Variance will correct itself later in fiscal year.

REGULATORY ISSUES: D&D

D and H Reactor Impacts of TPA Milestones: The acceleration of the reactor ISS projects is no longer consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestone (M-93-12) for DR Reactor.

Green

Status: Initial discussions with the regulators have begun. This will need to be discussed as part of RL's 100 Area acceleration vision. Regulators concur with path forward.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): D&D

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): D&D

F Reactor FSB Fuel Transfer Plan: The FH / K Basin management has not yet approved the F Reactor FSB Fuel Transfer Plan. The Plan outlines how the interfaces outlined in the DOE Letter of Direction (LOD) will be implemented between BHI and FH. The latest version of this plan was sent 1/10/01 (which incorporated the 12/21/00 LOD revision), but the FH / K Basin group has had earlier versions since October 2000.

Green

Status: Reactor ISS Project is working to implement the plan as written based on the verbal acknowledgement from the involved FH technical staff.

233-S Process Hood: NDA support (provided by FH-PFP) continues to be a concern. The level of NDA services requested in the FY 2001 Letter of Instruction (LOI) is not being met.

Yellow

Status: A meeting was held with the Manager of PFP to discuss the current support level. NDA support requirements at PFP have increased in addition to the increased need at 233-S. He stated that the level of NDA services in the FY 2001 LOI could only be met on a not to interfere with PFP basis. Additional NDA services are being arranged under PFP's umbrella contract with a vendor (Canberra). It is BHI's intention to establish vendor NDA services (also with Canberra) under a stand alone purchase order as soon as they have taken over responsibility for 233-S NDA support from PFP.

INTEGRATION ACTIVITIES: D&D

Coordinated fuel shipment requirements (to K Basin) with FH in event fuel is found during F and H Reactor FSB demolition.

Green

Program Management and Support (PM&S)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001**

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end January.
All other data as of February 23, 2001 (unless otherwise noted).**

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Safety and Health: The first of twelve scheduled surveillances was conducted to evaluate implementation of the recently introduced Bechtel Hanford, Inc. (BHI) hazards identification and analysis process (BHI-FS-01, Procedure 2.4, Pre-Job Walkdowns, Hazard Identification, and Analysis). Based on observations made during the surveillance, personnel have a basic understanding of the process and are working to develop job hazards analyses as required by the new procedure.

PROGRAM AND PROJECT SUPPORT:

External Affairs: Support was provided to the U.S. Environmental Protection Agency (EPA) for their "Five Year Review of Hanford Superfund Sites" document. Support activities included providing Hanford Site maps and finalizing a fact sheet and newspaper advertisement that announced a 30-day public comment period from January 29 to February 27.

ENGINEERING AND TECHNOLOGY:

Environmental Technologies: An archeological site was discovered on January 11 during monitoring of ground clearing and leveling operations at the 100 D Area ISRM well field. Following notification to RL, Tribal, and regulatory staff, an on-site inspection was held where concurrence was reached on actions to mitigate project effects on the site. Documents required under 36 Code of Federal Regulations (CFR) 800 (Protection of Historic Properties) were prepared and submitted to the State Historic Preservation Office, the Advisory Council on Historic Preservation, and the Tribes.

The annual Hanford Site Waste Management Units Report was placed on the Internet on January 11, which satisfies completion of Tri-Party Agreement Commitment Milestone C-10-08 (due January 31).

Technology Applications: During January, BHI Technology Applications personnel organized and hosted a week-long review of National Energy Technology Laboratory (NETL) proposals that addressed subsurface access and in situ carbon tetrachloride characterization. RL and NETL personnel also participated in the reviews.

PLANNING AND CONTROLS:

On January 10, the ER FY01 Baseline updates for River Corridor Restoration (Volume 1) and River Corridor Final Closure and Spent Nuclear Fuel (Volume 2) were submitted to RL per the Baseline Update Guidance (BUG) II requirements. These volumes contain ER data that have been recast to the new PBS/WBS structure for FY02 and beyond. In addition, a set of 3 volumes reflecting the ER Baseline by the current PBS structure was delivered to RL. On January 4, the ER portion of the Baseline Update for Volumes 3 through 5 was delivered to FH in support of the January 10 deliverables, per the BUG II as well.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS: <i>PM&S</i>	
<i>See Executive Summary.</i>	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: <i>PM&S</i>	
<i>None identified at this time.</i>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: <i>PM&S</i>	
<p>Six Sigma:</p> <p>The Waste Management Process Improvement Project (PIP#1) is entering the "improve phase" and is about 75% complete. The business plan for this PIP includes the following elements:</p> <ul style="list-style-type: none"> • <i>problem statement</i> • <i>project objectives</i> • <i>primary and secondary metrics</i> • <i>pareto graphs</i> • <i>swim lane process charts</i> • <i>failure method effect analysis</i> • <i>multi-variable analyses</i> <p>The Procedure Development Process Improvement Project (PIP#2) has begun the "define phase" and is about 5% complete. The business plan for this PIP includes the following elements:</p> <ul style="list-style-type: none"> • <i>problem statement</i> • <i>project objectives</i> • <i>primary and secondary metrics</i> <p>In March 2001, 25 ERC and DOE-RL personnel will participate in Six Sigma Yellow Belt Training. Yellow Belts fulfill the role of process owners and operators, as well as that of key members of PIP Teams. They work in partnership with the Champion and Black Belts to ensure that the improvement efforts are focused and executed in those areas where data indicates the need.</p>	<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): <i>PM&S</i>	
<ul style="list-style-type: none"> • DOE Secretarial: <i>None identified at this time.</i> 	
<ul style="list-style-type: none"> • DOE EM Performance Agreement: <i>None identified at this time.</i> 	
<ul style="list-style-type: none"> • TPA Milestones: <i>None identified at this time.</i> 	
<ul style="list-style-type: none"> • DNFSB Commitment: <i>None identified at this time.</i> 	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PERFORMANCE OBJECTIVES: *PM&S*

Comprehensive Measures—Approximately 10% Available Fee Pool Total Positive Value
Total Negative Value cannot exceed earnings under the Comprehensive PI

Comprehensive Measure	Fee Allocation	Task	Status
Safety	<i>Negative Fee up to 50% of fee available for comprehensive PI</i>	<ul style="list-style-type: none"> <i>The Contractor shall protect worker safety and health, public safety and health, and the environment.</i> 	<i>Reference the Safety Section of the Cross-Cutting package..</i>
Operational Excellence	<i>Positive Fee up to 55% of fee available for comprehensive PI</i>	<ul style="list-style-type: none"> <i>Migrate systems to facilitate PBS restructuring in FY02 – 15%</i> <i>Rebaseline completed per Baseline Updating Guidance (BUG) – 20%</i> <i>Integrate technology into Projects – 10%</i> <i>Achieve pollution prevention/waste minimization – 10%</i> 	<i>Rebaseline activities completed on 1/10/01. All other activities on schedule for completion on schedule.</i>
Effective Leadership	<i>Positive Fee up to 45% and Negative Fee up to 50% of fee available for comprehensive PI</i>	<ul style="list-style-type: none"> <i>Management Effectiveness</i> <i>Customer Satisfaction</i> <i>Effective Financial Management</i> 	<i>No concerns identified during January.</i>

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PERFORMANCE MEASURES/METRICS: *PM&S*

BHI has identified five technology deployments for FY01. One technology deployment has been completed through January.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
<i>Remote Retrieval System (Brokk 330N™ with appropriate attachments)</i>	<i>RL-ER06</i>	<i>2nd quarter</i>	<i>2nd quarter</i>
<i>3D Visual and Gamma Imaging System (GammaCam)</i>	<i>RL-ER06</i>	<i>2nd quarter</i>	<i>2nd quarter</i>
<i>In Situ Object Counting System (ISOCS)</i>	<i>RL-ER06</i>	<i>2nd quarter</i>	<i>2nd quarter</i>
<i>Polyshield SS-100 Fixative</i>	<i>RL-ER01</i>	<i>12/00</i>	<i>12/00A</i>
<i>Surveillance and Measurement Model 935</i>	<i>RL-ER01</i>	<i>2nd quarter</i>	<i>2nd quarter</i>

Green

STRETCH AND SUPERSTRETCH GOALS: *PM&S*

None identified at this time.

PROJECT STATUS (COST/SCHEDULE): *RAWD*

- Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER10 ERC Program Management & Support</i>	<i>9,811</i>	<i>9,591</i>	<i>(220)</i>
<i>ER10 RL Program Management & Support</i>	<i>1,837</i>	<i>1,095</i>	<i>(742)</i>
TOTAL PM&S	11,648	10,686	(962)

Green

PBS-ER10 – Program Management and Support

Schedule Variance = (\$962K); (8.3%) [Last Month: (\$1203K); (13.4%)]

Cause: *HEIS/HGIS/WIDS and project specific databases staffs are working on higher priority direct project scope.*

Resolution: *Temporary schedule delay; subcontracts are being prepared to provide additional staffing and recover schedule.*

Cause: *Late billing on site-wide assessments.*

Resolution: *RL is discussing billing/timing with other site contractors/government agencies.*

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE): PM&S

• **Cost:**

Program Management & Support	FY01 EAC	BCWP \$K	AWP \$K	Variance \$K
ER10 ERC Program Management & Support	31,138	9,591	8,603	988
ER10 RL Program Management & Support	6,381	1,095	1,095	0
TOTAL PM&S	37,519	10,686	9,698	988

Green

PBS-ER10 – Program Management and Support

Cost Variance = **\$988K; 9.2%** [Last Month: \$743K; 9.5%]

Cause: Special billing adjustments (underrun): an FY98 reversed accrual, an adjustment to FY95 B&O Tax refund, a rebill to FY97 Heavy Equipment/Facility Cost, and a coding error for prior year provisional rate.

Resolution: No action required; underrun has been trended and reflected in EAC. Underruns will be used to perform additional remediation work.

Cause: Accounting credit due to transfer of prior year RadCon MARRISM (manual) purchase to a distributed account.

Resolution: Underrun will be used to perform additional remediation work.

REGULATORY ISSUES: PM&S

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): PM&S

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): PM&S

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

INTEGRATION ACTIVITIES: PM&S

Safety and Health: ER support to the Hanford Site multi-contractor technical exchange group continued on reuse, recycle, and release issues, including proposed modifications to DOE 5400.5, Radiation Protection of the Public and the Environment. Several meetings have been held to integrate site application requirements.

Design Engineering: Engineering supported the value engineering study sponsored by Fluor Hanford's (FH) River Corridor Project (RCP) group to streamline configuration management requirements RCP will use in the future. Per RCP group's request, Engineering is compiling a list that summarizes requirements for transferring a facility from FH to BHI.

Environmental Technologies: The Waste Sampling and Characterization Facility (WSCF) laboratory was audited by an integrated team of ERC and FH staff. The audit was completed January 25. The audit found only minor issues with regard to Hanford Analytical Services Quality Requirements Document (HASQARD) compliance and WSCF Quality Assurance Program Plan (QAPP) compliance. The laboratory was approved for continued use.

BHI facilitated the development of site-wide criteria to determine which regulatory agency enforcement action letters require notification to DOE under DOE Order 232.1A. This issue was addressed by the Central Environmental Committee (CEC), which is composed of Hanford Site contractor representatives. The approved approach establishes a clear hierarchy of agency enforcement actions that will be used to distinguish between "formal notifications" that require reporting under DOE Order 232.1A and "informal notifications" that do not trigger reporting under this Order and ensures consistency among the Hanford Site contractors. On January 18, this approach was formerly transmitted to RL/Office of River Protection (ORP) from the CEC with effective date of February 1.

Green

Environmental Management Performance Report

March 2001

Section C - Central Plateau Information

- Groundwater/Vadose Zone Integration Project
- Surveillance/Maintenance & Transition Projects



Collecting Liquid Samples at Tank 5-6 (U Plant)



Placement of Drilling Derrick (100 Area ISRM Project)



Moving Excessed Aluminum Filter Frames at B Reactor



Repairs on 221-U Roof

Focused on Progress...

Focused on Outcomes!

Financial/Performance Measures data as of month-end January.
All other data as of February 23 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0102044b.2

Groundwater/Vadose Zone Integration Project (GW/VZ)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end January.
All other data as of February 23, 2001 (unless otherwise noted).

Groundwater/Vadose Zone Integration Project(GW/VZ):

ACCOMPLISHMENTS: GW/VZ

GW/VZ INTEGRATION PROJECT:

System Assessment Capability (SAC): History matching was completed for vadose zone, groundwater, and Columbia River technical elements in preparation for running the entire SAC model for the period 1944 to 2000 to test its integrated performance.

Science and Technology: An update of science and technology (S&T) applications was provided to the National Academy of Sciences (NAS) Committee during a January 19 teleconference. A NAS report summarizing their evaluation of the Integration Project S&T will be released in June 2001.

GROUNDWATER MANAGEMENT:

In Situ Redox Manipulation (ISRM) Project: In January, Phase II of the ISRM project was initiated. Phase II consists of installing 28 barrier wells and 4 compliance monitoring wells parallel to the Columbia River. These well installations will extend the current 198-meter (650-foot) chromium-contaminated groundwater barrier by approximately 280 additional meters (919 feet).

Long-Term Groundwater Monitoring: The annual report, "Hanford Site Groundwater Monitoring for Fiscal Year 2000", was distributed for contractor and RL review as scheduled.

The "Hanford Site Groundwater Monitoring for Fiscal Year 1999" report won an award of excellence at the Technical Communications Publication Competition 2000, sponsored by the Society for Technical Communications, Puget Sound Chapter.

River Corridor Well Decommissioning: A walkdown for Phase 1A and 1B well decommissioning was completed. A list of 115 proposed wells was issued to Pacific Northwest National Laboratory (PNNL) for decommissioning in support of the super stretch performance incentive to decommission 90 wells.

Resource Conservation and Recovery Act Well Installation: Installation of five RCRA wells remains on schedule for completion by the end of April to satisfy Tri-Party Agreement Milestones M-24-49 and M-24-50. Two of the five RCRA wells were installed in January.

Summary of Five Pump and Treat Systems: All groundwater pump and treat systems operated above the planned 90% availability levels in January. Since system inception, the five pump and treat systems have processed over 4.7 billion liters of groundwater, removing approximately 5064 kilograms of carbon tetrachloride, 221 kilograms of chromium, and 0.96 curies of strontium. Approximately 415 million liters of groundwater have been processed in FY01, removing approximately 482 kilograms of carbon tetrachloride, 28 kilograms of chromium, and 0.070 curies of strontium.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

ACCOMPLISHMENTS continued: GW/VZ	
<p>200 AREA ASSESSMENTS:</p> <p><i>Due to funding reductions, 200-CS-1 Operable Unit field workscope was deferred into FY02. The work deferred includes test pits, borehole drilling, geophysical logging, sample collection and analysis, and associated field reports. No FY01 Tri-Party Agreement milestones are affected.</i></p>	<div style="font-size: 3em;">}</div> <div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ	
<i>See Executive Summary.</i>	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ	
<i>None identified at this time.</i>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ	
<i>None identified at this time.</i>	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ	
<ul style="list-style-type: none">• DOE Secretarial: <i>None identified at this time.</i>	
<ul style="list-style-type: none">• DOE EM Performance Agreement: <i>None identified at this time.</i>	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: GW/VZ

• **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-13-00K	Submit One (1) 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/21/00 (A)
M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/21/00 (A)
M-24-46	Install Three (3) Additional Wells at SST WMA S-SX	12/31/00	12/27/00 (A)
M-24-47	Install Four (4) Additional Wells at SST WMA T	12/31/00	12/27/00 (A)
M-24-48	Install Three (3) Additional Wells at SST WMA TX-TY	12/31/00	12/27/00 (A)
M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/27/00 (A)
M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement	12/31/00	11/01/00 (A)
M-24-49	Install Three (3) Additional Wells at SST WMA S-SX	4/30/01	3/29/01 (F)
M-24-50	Install Two (2) Additional Well at SST WMA TX-TY	4/30/01	3/07/01 (F)
M-13-26	Submit Plutonium/Organic-Rich (200-PW-1) Work Plan	6/30/01	6/30/01 (F)
M-15-38A	Submit Draft A Gable Mountain Pond / B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond / B Pond and Ditch Cooling Waste Group Proposed Plan / Proposed RCRA Permit Modification	11/30/01	11/30/01 (F)*
M-13-00L	Submit 3 200 NPL RI/FS (RFC/CMS) Work Plans	12/31/01	**
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	12/31/01 (F)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in Calendar Year 2001 if Required	12/31/01	12/31/01 (F)

Green

Yellow

Green

*Regulators recommending feasibility study (FS) placed on hold pending resolution of upcoming new Model Toxics Control Act (MTCA) requirements clarification and land-use scenarios for sites outside the Central Plateau industrial-exclusive land-use boundary. Options for path forward are being discussed.

**M-13 series milestones will require renegotiation to reflect the revised 200 Area strategy. This issue was discussed with the regulators at the last TPA Quarterly Review on December 19.

• **DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

PERFORMANCE OBJECTIVES: GW/VZ

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
GW – ISRM Barrier	3%	3%	<ul style="list-style-type: none"> Drill 24 wells and inject sodium dithionite by 9/30/01 <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	<p>Critical path activities on schedule, however an emerging issue on effects of air drilling on the ISRM barrier is being evaluated. Waste issues will continue while Project pursues Ecology's "contained-in" approach.</p>
GW – 618-11 Tritium Plume	3%	3%	<ul style="list-style-type: none"> Drill wells to establish 20,000 pCi/L Contour, Collect Groundwater Samples by 9/30/01 (*Stretch) <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	<p>Work has commenced.</p> <p>(*Detail Section 6C)</p>

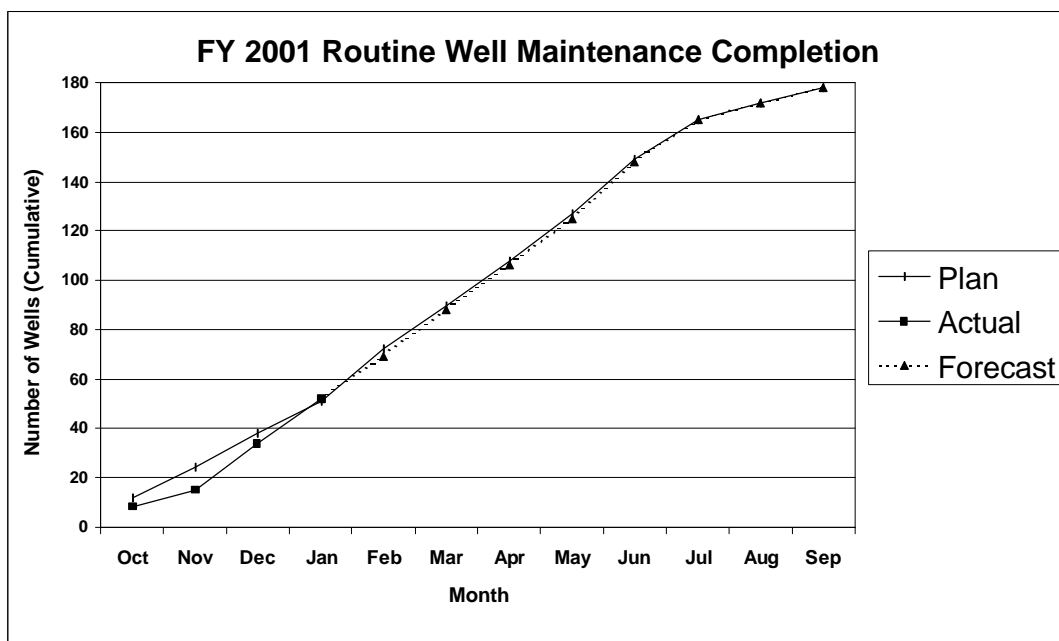
Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PERFORMANCE MEASURES/METRICS: GW/VZ



Green

Cumulative	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Plan	12	24	38	51	69	88	106	125	148	165	172	178
Actual	8	15	34	52	69	88	106	125	148	165	172	178
Forecast												

Notes:
 Plan: Well Maintenance is planned on a quarterly basis and spread evenly by month for purposes of this graph.
 Forecast: When wells are "released" to the subcontractor for maintenance, he is given 90 days for completion. That is also spread evenly by month, for that 90-day period, for this graph.

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY01 GW/VZ "Stretch" Goals	Approved BCPs (K)
<i>Tritium Plume at 618-11 Burial Ground – Collect GW Samples by 9/30/01 (BCP 21090 approved 1/01)</i>	\$595.4
<i>S/Total GW – Vadose Zone Stretch Goals:</i>	\$595.4K

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE): GW/VZ

- Schedule:**

GW/VZ Integration Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER02 200 Area Remedial Actions	724	599	(125)
ER08 Groundwater Management	8,906	7,829	(1,077)
VZ01 Groundwater/Vadose Zone	4,059	3,380	(679)
TOTAL Groundwater	13,689	11,808	(1,881)

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = **(\$125K); (17.3%)** [Last Month: (\$163K); (27.7%)]

Cause: Variance associated with pre-job planning activities. Resources in the Detailed Work Plan (DWP) are level loaded, when in actuality the majority of the effort will take place during the latter half of duration.

Resolution: None; schedule will be recovered in latter half of activity.

Cause: Work on the Feasibility Study is behind schedule due to resource availability.

Resolution: Additional resources became available in December; schedule expected to be recovered.

PBS-ER08 – Groundwater Management

Schedule Variance = **(\$1077K); (12.1%)** [Last Month: (\$1035K); (14.7%)]

Cause: RCRA well drilling schedule impacted due to contaminated soil encountered during well drilling (Nov), and RCRA waste shipments placed on hold (Dec) to address new Ecology "contained in" approach.

Resolution: Handling of wastes delay will not impact meeting TPA milestones (M-24-49/50); aggressive schedule will be implemented to recover.

Cause: Well decommissioning delays caused by extended well document search and selection.

Resolution: The project is updating documentation to accurately account for Hanford wells so decommissioning can continue.

Cause: Groundwater monitoring activities are behind schedule.

Resolution: A recovery schedule has been initiated. Anticipate recovery in next quarter.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **(\$679K); (16.7%)** [Last Month: (\$554K); (17.3%)]

Cause: Additional time required for the preparation of the data configuration procurement document, and delay in implementing new DOE guidance for Software Engineering Methodology (SEM).

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ

Resolution: An attempt will be made to identify efficiencies in an effort to mitigate the schedule variance, but completion is projected to carry over to FY02. BHI has tailored new SEM requirements to documentation.

Cause: Conceptual Model Standardization activities experienced a delayed start due to the delay in obtaining a subcontractor.

Resolution: Activities have started and are progressing; impact is minimal. Not critical path activity..

Cause: Data gathering for System Assessment Capability (SAC) took longer than planned due to inventory work having unexpected carryover work (identified after DWP preparation) that needs to be accomplished before history matching can be completed.

Resolution: The estimated delay will not have an impact to FY01 deliverables because several activities were deferred to FY02 in support of budget reductions.

Cause: Unavailability of resources delayed evaluation of FY00 test and development of FY01 Vadose Transport Test Plan, and start of Groundwater/River interface study.

Resolution: Analysis of test results are nearly complete; additional resources were added to the task in December. Schedule expected to be recovered during summer.

- **Cost:**

GW/VZ Integration Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER02 200 Area Remedial Actions	4,154	599	482	117
ER08 Groundwater Management	31,004	7,829	7,893	(64)
VZ01 Groundwater/Vadose Zone	11,226	3,380	3,390	(10)
TOTAL Groundwater	46,384	11,808	11,765	43

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **\$117K; 19.5%** [Last Month: \$75K; 17.6%]

Cause: Public review of process and tank waste group work plans were not required.

Resolution: Underrun will be used to perform additional remediation work.

Cause: The amount of historical data available for Gable Mountain and B-Pond was less than expected, therefore the site background effort was not as extensive as originally planned.

Resolution: Underrun reflected in EAC and identified in Trend.

PBS-ER08 – Groundwater Management

Cost Variance = **(\$64K); (0.8%)** [Last Month: \$129K; 2.1%]

Cause: Sample collection underruns.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ	
<p>Resolution: Underruns will be used to perform additional remediation work.</p> <p>PBS-VZ01 – Groundwater/Vadose Zone Cost Variance = (\$10K); (0.3%) [Last Month: (\$5K); (0.2%)]</p> <p>Cause: Underruns in system characterization offset by an overrun in System Assessment Capability (SAC) historical matching.</p> <p>Resolution: None required. Underrun will be used to perform other activities. SAC overrun has been trended and reflected in the project EAC.</p>	
REGULATORY ISSUES: GW/VZ	
<p>M-13-00x and M-20-xx Series: RL management, working closely with the Environmental Protection Agency (EPA), Ecology, and the Hanford Advisory Board (HAB), has developed a more streamlined approach for the remediation of the 200 Area non-tank farm related operable units on the Hanford Site. The existing baseline for soil characterization in the 200 Area Remedial Action Project shows a completion of the characterization of 23 operable units by the year 2008. The new streamlined approach calls for completion of the characterization of 12 representative analogous waste site operable units by 2008.</p> <p>Status: RL will work with the regulators to establish revised interim M-13 and M-20 milestones based on the improved approach to 200 Area assessment which supports the Hanford site outcomes. It is anticipated that M-13-00x major milestone adjustments can be addressed with the regulators once the revised FY02 DOE budget is approved.</p>	<div style="border: 2px solid black; padding: 5px; width: 60px; margin: 0 auto;">Yellow</div>
<p>200-CW-1 Gable Mountain/B-Pond and Ditches Feasibility Study (FS): The regulatory framework for completing the FS is not established. This impacts the completion of TPA Interim Milestone M-15-38A, "Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group FS and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Proposed Plan/Proposed RCRA Permit Modification" (due November 30).</p> <p>Status: In a January 31, 2001 meeting, Ecology requested that the FS be put on hold pending resolution of the following key issues: 1) the adequacy of existing ecological evaluation data to support a Record of Decision; 2) clarification of the new forthcoming MTCA requirements as they apply to ecological evaluation; and 3) land-use scenarios for sites outside the Central Plateau industrial-exclusive land-use boundary. EPA endorsed these concerns as well as the request to delay completion of the FS. Project staff are developing recommendations that must be taken to resolve the outstanding issues and successfully complete the FS and determine whether or not a revision to the existing TPA interim milestone (M-15-38A, 11/30/01) is necessary. The recommendation will be internally reviewed prior to a proposed Results Management Team (RMT) presentation on February 27.</p>	<div style="border: 2px solid black; padding: 5px; width: 60px; margin: 0 auto;">Green</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): GW/VZ	
None identified at this time.	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): GW/VZ	
None identified at this time.	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

INTEGRATION ACTIVITIES: GW/VZ

None identified at this time.

Surveillance/Maintenance and Transition Projects (SM&T)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
MARCH 2001

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end January.
All other data as of February 23, 2001 (unless otherwise noted).

Surveillance/Maintenance & Transition Projects (SM&T):

ACCOMPLISHMENTS: SM&T

Surveillance and Maintenance: S&M activities that were performed in January to ensure inactive facility integrity and safety included the following:

- Completion of backfill activities at the 218-W-2A waste burial site. Final work will consist of stabilizing the soil site with gravel and applying a sterilant to prevent weed growth.
- Shipment of 24 large aluminum filter frames offsite for recycling. The filter frames were fabricated in support of N Reactor operations and equate to approximately 11 metric tons (25,000 pounds) that will not require disposal in the Hanford landfill.
- Completion of site excavation for the hexone tanks, and installation of enclosure scaffolding over one of the tanks. Sampling efforts are planned for late February after mockup training for tank opening, videotaping, and sampling activities are completed.

Canyon Disposition Initiative (CDI): Sampling activities were completed for three U Plant canyon tanks in support of the CDI characterization efforts. These sampling activities included substantial radiological risk and were performed without incident and well under the projected personnel dose estimates.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: SM&T

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: SM&T

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: SM&T

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): SM&T

- **DOE Secretarial:**
None identified at this time.
- **DOE EM Performance Agreement:**
None identified at this time.
- **TPA Milestones:**
None identified at this time.
- **DNFSB Commitment:**
None identified at this time.

PERFORMANCE OBJECTIVES: SM&T

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PERFORMANCE MEASURES/METRICS: *SM&T*

None planned in FY01.

STRETCH AND SUPERSTRETCH GOALS: *SM&T*

None identified at this time.

PROJECT STATUS (COST/SCHEDULE): *SM&T*

- Schedule:**

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER05			
<i>Surveillance & Maintenance</i>	5,234	4,476	(758)
ER07			
<i>Long-Term Surveillance & Maintenance</i>	4	4	0
TOTAL SM&T	5,238	4,480	(758)

Green

PBS-ER05 – Surveillance and Maintenance

Schedule Variance = **(\$758K); (14.5%)** [Last Month: (\$784K); (18.9%)]

Cause: The time required to review/evaluate new sampling and video equipment specified in the HEXONE Tank Project data quality objective (DQO) has taken longer than originally planned.

Resolution: Sampling and video taping of the tanks interior contents will occur simultaneously, compressing the existing schedule; recovery is expected over the course of sampling and interim stabilization activities.

Cause: The original Asbestos Abatement work scope was turned down per the Plant Forces Work Review (PFWR) delaying the start or work.

Resolution: A subcontract is being prepared to execute work scope activities. Work is to start in April 2001 and complete by the end of August; a BCP is being prepared to adjust schedule. For cost effectiveness, the 200 and 100 Areas were combined.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01)

Schedule Variance = N/A

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

MARCH 2001

PROJECT STATUS (COST/SCHEDULE) continued: SM&T

• **Cost:**

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		\$K	\$K	\$K
ER05 <i>Surveillance & Maintenance</i>	14,070	4,476	4,426	230
ER07 <i>Long-Term Surveillance & Maintenance</i>	56	4	0	4
TOTAL SM&T	14,126	4,480	4,426	234

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = **\$230K; 5.1%** [Last Month: \$251K; 7.5%]

Cause: Cost underruns are due to 200 Area S&M planned resources in the baseline not aligning with actual work performed in the field. (The DWP reflects a level of effort evenly for the entire fiscal year. The spend plan does not reflect a level of effort forecast); offsetting the 200 Area underrun are higher than anticipated costs associated with CDI concrete core sampling at the 221-U Canyon and nuclear facility support.

Resolution: Underrun has been trended and is reflected in EAC. Passive vent sealing work will be performed in last half of year decreasing underrun. A portion of the overrun at CDI will be recovered with expected savings from shipping samples to an offsite laboratory for analysis (expected in March).

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01)

Cost Variance = N/A

REGULATORY ISSUES: SM&T

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): SM&T

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): SM&T

None identified at this time.

INTEGRATION ACTIVITIES: SM&T

None identified at this time.